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# Mathematics Calendar

Please submit conference information for the Mathematics Calendar through the Mathematics Calendar submission form at <http://www.ams.org/cgi-bin/mathcal-submit.pl>. The most comprehensive and up-to-date Mathematics Calendar information is available on the AMS website at <http://www.ams.org/mathcal/>.

## May 2013

\* 21–24 **Encounters Between Discrete and Continuous Mathematics**, Institute of Mathematics, Eötvös Loránd University, Budapest, Hungary.

**Description:** Our goal is to bring together researchers from different fields, build new connections and highlight cooperation possibilities. There will be special sessions devoted to time integration of partial and delay differential equations, operator semigroups and evolution equations, and dynamic processes on networks.

**Main speakers:** Wolfgang Arendt (Ulm), Etienne Emmrich (Berlin), László Erdős (München), Sergey Korotov (Bilbao), Balázs Szegedy (Toronto), László Székelyhidi (Leipzig), Gerald Teschl (Wien), Vincenzo Vesprì (Firenze), Zahari Zlatev (Roskilde).

**Organizing committee:** András Bátkai (Budapest), István Faragó (Budapest), László Lovász (Budapest), Rainer Nagel (Tübingen), Alexander Ostermann (Innsbruck).

**Information:** <http://www.cs.elte.hu/applanal/events/encounters/>.

\* 27–31 **Geometric methods in PDE's: Indam meeting on the occasion of the 70th birthday of Ermanno Lanconelli**, Cortona, Arezzo, Italy.

**Description:** The scope of this conference is to celebrate the 70th birthday of Ermanno Lanconelli and to bring together Italian and foreign mathematicians to favour the discussion in the areas of research where Ermanno Lanconelli has been particularly active. Sec-

ond order linear and nonlinear partial differential equations with non-negative characteristic form, Geometric problems related to the underlying algebraic, geometrical or topological structure, application to complex geometry and CR manifolds. These fields are the objects of active research and development, and possess a remarkable degree of interrelation in their pure and applied aspects.

**Information:** <http://lanconelli2013.dm.unibo.it/>.

\* 27–June 1 **5th Women in Mathematics Summer School on Mathematical Theories towards Environmental Models**, The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.

**Description:** The school aims at approaching different core problems of pure and applied mathematics in a multidisciplinary perspective. It will consist of short courses focusing on four topics of current research: 1. Nonlinear Partial Differential Equations; 2. Dynamical Systems and Bifurcation Theory with Applications to the Dynamics of Planet Earth; 3. Isogeometric Analysis; 4. Numerical Analysis of Environmental Flows. Each short course consists of an introductory part, a more advanced one, together with problem solving and tutorial sessions. The European Women in Mathematics summer schools aim at providing a stimulating intellectual environment for Ph.D. students and post-docs from different countries and different mathematical disciplines. A major scope is to encourage the active participation of women in higher mathematics. Partici-

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**This section** contains announcements of meetings and conferences of interest to some segment of the mathematical public, including ad hoc, local, or regional meetings, and meetings and symposia devoted to specialized topics, as well as announcements of regularly scheduled meetings of national or international mathematical organizations. A complete list of meetings of the Society can be found on the last page of each issue.

**An announcement** will be published in the *Notices* if it contains a call for papers and specifies the place, date, subject (when applicable), and the speakers; a second announcement will be published only if there are changes or necessary additional information. Once an announcement has appeared, the event will be briefly noted in every third issue until it has been held and a reference will be given in parentheses to the month, year, and page of the issue in which the complete information appeared. Asterisks (\*) mark those announcements containing new or revised information.

**In general**, announcements of meetings and conferences carry only the date, title of meeting, place of meeting, names of speakers (or sometimes a general statement on the program), deadlines for abstracts or contributed papers, and source of further information. If there is any application deadline with respect to participation in the meeting, this fact should be noted. All communications on meetings and conferences

in the mathematical sciences should be sent to the Editor of the *Notices* in care of the American Mathematical Society in Providence or electronically to [notices@ams.org](mailto:notices@ams.org) or [mathcal@ams.org](mailto:mathcal@ams.org).

**In order** to allow participants to arrange their travel plans, organizers of meetings are urged to submit information for these listings early enough to allow them to appear in more than one issue of the *Notices* prior to the meeting in question. To achieve this, listings should be received in Providence **eight months** prior to the scheduled date of the meeting.

**The complete listing** of the Mathematics Calendar will be published only in the September issue of the *Notices*. The March, June/July, and December issues will include, along with new announcements, references to any previously announced meetings and conferences occurring within the twelve-month period following the month of those issues. New information about meetings and conferences that will occur later than the twelve-month period will be announced once in full and will not be repeated until the date of the conference or meeting falls within the twelve-month period.

**The Mathematics Calendar**, as well as Meetings and Conferences of the AMS, is now available electronically through the AMS website on the World Wide Web. To access the AMS website, use the URL: <http://www.ams.org/>.

pants and lecturers will be of both sexes. This Summer School is part of the international initiative "Mathematics of Planet Earth 2013".

**Information:** <http://agenda.ictp.it/smr.php?2468>.

\* 28–31 **ESF Exploratory Workshop: Noise in Decision Making: Theory Meets Experiment**, Sant Fruitós de Bages, Catalonia.

**Organizers:** Albert Compte, IDIBAPS, Barcelona; Gustavo Deco, Universitat Pompeu Fabra; Jaime de la Rocha, IDIBAPS, Barcelona; Alex Roxin, Centre de Recerca Matemàtica; Klaus Wimmer, IDIBAPS, Barcelona.

**Information:** <http://www.crm.cat/2013/DecisionMaking>.

\* 29–June 2 **The Fourth Conference on Computational and Mathematical Population Dynamics (CMPD4)**, Taiyuan, China.

**Description:** The previous joint conferences were CMPD1 (Trento, Italy, 2004); CMPD2 (Campinas, Brazil, 2007); CMPD3 (Bordeaux, France, 2010).

**Goal:** Of this international conference is to bring together leading researchers from different fields (applied mathematics, biology, computer science, ecology, epidemiology, medicine, public health, etc.) to report and communicate with each other about their current work on computational and mathematical population dynamics. The conference will also provide a unique opportunity for graduate students and postdoctoral fellows to interact with leading researchers in these areas.

**Information:** <http://202.99.210.182:2013/Home/Index/1>.

**June 2013**

\* 3–7 **Workshop on Slow-Fast Dynamics: Theory, Numerics, Application to Life and Earth Sciences**, Centre de Recerca Matemàtica, Bellaterra, Barcelona.

**Speakers:** Freddy Dumortier (Hasselt University), Jean-Pierre Francoise (Pierre & Marie Curie University), Olivier Faugeras (INRIA Sophia Antipolis), G. Bard Ermentrout (University of Pittsburgh), Antoni Guillamon (Universitat Politècnica de Catalunya), John Guckenheimer (Cornell University), Christopher K. R. T. Jones (University of North Caroline).

**Organizers:** Peter De Maeschalck, University of Hasselt; Mathieu Desroches, INRIA; Mark Kramer, Boston University; Martin Krupa, INRIA; Serafim Rodrigues, University of Plymouth; Alexandre Vidal, University of Evry; Haiping Zhu, University of York.

**Information:** <http://www.crm.cat/2013/WKEarthSciences>.

\* 10–11 **Workshop on Emergence, Spread and Control of Infectious Diseases**, Centre de Recerca Matemàtica, Bellaterra, Barcelona.

**Organizer:** Andrei Korobeinikov, Centre de Recerca Matemàtica, Bellaterra, Barcelona.

**Committee:** Àngel Calsina, Universitat Autònoma de Barcelona; Joan Saldaña, Universitat de Girona; Vladimir Sobolev, Samara State Aerospace University.

**Information:** <http://www.crm.cat/2013/InfectiousDiseases>.

\* 10–14 **Fourth International Conference on Geometry, Dynamics, Integrable Systems – GDIS 2013**, Udmurt State University, Izhevsk, Russia.

**Main topics:** Nonholonomic mechanics and multi-body dynamics, systems with friction, classical mechanical integrable systems, optimal control and mechanics, algebro-geometric methods in mechanics, applications to robototechnics and biomechanics.

**Information:** <http://www.mi.sanu.ac.rs/~gdis2013/>.

\* 11–14 **Continued Fractions, Interval Exchanges and Applications to Geometry**, Centro di Ricerca Matematica Ennio De Giorgi, Palazzo Puteano, Piazza dei Cavalieri 3, Pisa, Italy.

**Description:** The workshop will focus on the interplay between dynamical systems and arithmetic, and in particular on the study of arithmetic algorithms of significance in dynamics and geometry.

**Registration:** Is free. Participants are requested to register on the website of the conference: <http://www.crm.sns.it/event/272/registration.html> whence further details and updates can be retrieved as well. Some funds are available to offer financial support to a number of selected young researchers and students for their participation in the Workshop. Applications can be made on-line through <http://www.crm.sns.it/event/272/financial.html>. Planned activities include a few contributed talks. Those who wish to propose a talk should send title and abstract to: [dysys.pisa@gmail.com](mailto:dysys.pisa@gmail.com).

**Deadlines:** For application for financial support and talk proposal: March 31, 2013. For Registration: May 25, 2013.

**Information:** <http://www.crm.sns.it/event/272/>.

\* 13–15 **30th Annual Workshop in Geometric Topology**, Calvin College, Grand Rapids, Michigan.

**Description:** Pedro Ontaneda of Binghamton University will give a series of three one-hour lectures on "Riemannian Hyperbolization". Attendees are invited to contribute talks. Funds, provided by the NSF, are available to support travel by graduate students and those without other sources of funding.

**Information:** <http://www.calvin.edu/~venema/workshop13/>.

\* 17–20 **7th Annual International Conference on Mathematics**, Athens Institute for Education and Research, Athens, Greece.

**Description:** The conference is soliciting papers (in English only) from all areas of Mathematics and other related areas. Selected (peer-reviewed) papers will be published in a Special Volume of the Conference Proceedings.

**Information:** <http://www.atiner.gr/mathematics.htm>.

\* 17–21 **Conference on Variational Problems and Geometric PDE's**, Granada, Spain.

**Organizing committee:** Joaquín Pérez, Universidad de Granada; Antonio Ros, Universidad de Granada; Francisco Martín, Universidad de Granada.

**Information:** <http://gigda.ugr.es/granada2013>.

\* 18–21 **Financial Engineering Summer School (FESS2013)**, Bolsa de Barcelona, Spain.

**Description:** 4 courses: Damiano Brigo (Imperial College), Consistent Modeling of Counterparty Credit Risk, Collateral and Funding Costs; Jim Gatheral (Baruch College, NY), The Volatility Surface: Statics and Dynamics; Richard Martin (Longwood Credit Partners), Hedge Fund Trading Strategies; Alexander McNeil (Heriot-Watt University), Credit Risk Models and the Changing Regulatory Environment.

**Organizers:** Joan del Castillo, Universitat Autònoma de Barcelona, Paul MacManus, Analistas Financieros Internacionales.

**Information:** <http://www.crm.cat/FESS2013>.

\* 23–30 **Bogolyubov readings DIF-2013. Differential equations, theory of functions and their applications**, Sevastopol Institute of Banking, Sevastopol, Ukraine.

**Description:** The conference is dedicated to Academician of National Academy of Sciences of Ukraine Professor A. M. Samoilenko on the occasion of his 75th anniversary.

**Conference sections:** Differential equations and nonlinear oscillations, theory of functions, mathematical problems of mechanics, mathematical modeling of economic, financial and insurance processes, stochastic differential equations.

**Information:** <http://www.imath.org.ua/?lang=en>.

\* 24–28 **The Second Pacific Rim Mathematical Association Congress (PRIMA-2013)**, Shanghai Jiao Tong University, Shanghai, China.

**Description:** PRIMA is an association of mathematical sciences institutes, departments and societies from around the Pacific Rim, established in 2005 with the aim of promoting and facilitating the development of the mathematical sciences throughout the Pacific Rim region. Its congress is held every four years. The first congress

was held in 2009 in Sydney, Australia. The second PRIMA congress in Shanghai will feature 2 public lectures and 11 plenary speakers from distinguished mathematicians, and 23 special sessions covering all major areas of mathematics. The conference also welcomes contributed talks and other participants.

**Information:** <http://meeting.healife.com/prima2013/en/index.asp>.

**Grant:** The NSF has awarded a substantial grant for travel by scientists at US universities to the PRIMA Congress in Shanghai. You do not need to be a US citizen to apply. For further information and application details, please see <http://www.mathprograms.org/db/programs/152>. Applications from women and underrepresented minorities are especially encouraged.

\* 25–28 **Advanced Course on Topics in Conformal Geometry and Geometry Analysis**, Centre de Recerca Matemàtica, Bellaterra, Barcelona.

**Speakers:** William Meeks (University of Massachusetts at Amherst), Alice Chang (Princeton University), Charles Fefferman (Princeton University).

**Organizing and Scientific Committee:** Sun-Yung Alice Chang, Princeton University; Maria del Mar González, Universitat Politècnica de Catalunya; Robin Graham, University of Washington; Francisco Martín, Universidad de Granada; Paul Yang, Princeton University.

**Information:** <http://www.crm.cat/2013/ACConformalGeometry>.

### July 2013

\* 1–5 **Conference on Geometrical Analysis**, Centre de Recerca Matemàtica, Bellaterra, Barcelona.

**Speakers:** Spyros Alexakis (University of Toronto), Tobias Colding (Massachusetts Institute of Technology), Rod Gover (University of Auckland), Matthew Gursky (University of Notre Dame), Emmanuel Hebey (Université Cergy Pontoise), Kengo Hirachi (The University of Tokyo), Andreas Juhl (Humboldt Universität zu Berlin), Robert Kusner (University of Massachusetts at Amherst), Andrea Machiodi (International School for Advanced Studies, SISSA), Jie Qing (University of California at Santa Cruz), Jeff Viaclovsky (University of Wisconsin-Madison).

**Organizing and Scientific Committee:** Sun-Yung Alice Chang, Princeton University; Maria del Mar González, Universitat Politècnica de Catalunya; Robin Graham, University of Washington; Francisco Martín, Universidad de Granada; Paul Yang, Princeton University.

**Information:** Visit <http://www.crm.cat/2013/CGeometricalAnalysis/>.

\* 1–5 **Oxford Conference on Challenges in Applied Mathematics (OCCAM)**, St Anne's College, Oxford, United Kingdom.

**Description:** OCCAM is delighted to announce a major conference celebrating five years of international, interdisciplinary, collaborative applied mathematics to be held in Oxford from 1–5 July 2013. The Oxford Conference on Challenges in Applied Mathematics (OCCAM) will cover the four keys areas of: Continuum mechanics (Monday, July 1), energy and resources (Tuesday, July 2), bioscience (Wednesday, July 3), methodologies (Thursday, July 4th and Friday July 5th). The conference will be both a celebration of what we and our partners have achieved so far and an insight into the latest thinking from scientists across the academic world. In the spirit of OCCAM there will be plenty of time for delegates to get involved via Q & A, discussion, and informal collaboration.

**Confirmed speakers:** Available on the conference homepage and registration is via online form only: <http://www.maths.ox.ac.uk/groups/occam/events/occam/registration>.

**Information:** <http://www.maths.ox.ac.uk/groups/occam/events/oxford-conference-challenges-applied-mathematics>.

\* 8–12 **Mathematics of Planet Earth Australia 2013**, RMIT, Melbourne, VIC, Australia.

**Description:** This conference is the central academic event of Maths of Planet Earth Australia 2013. The conference will provide a forum for researchers, educators, students, contributors, users of mathematical knowledge and industries to exchange ideas, discuss research findings and new advancements in mathematics and statistics highlighting the influence the mathematical sciences have on solving the challenges of our planet.

**Conference themes:** Complex systems, scientific data mining, earth system modeling, mitigating natural disaster risk and bioinvasion and biosecurity.

**Information:** <http://mathsofplanetearth.org.au/events/2013/>.

\* 9–12 **Moduli-Operads-Deformations**, Buskerud University College, Kongsberg, Norway.

**Description:** The main purpose of the conference is to stimulate and promote interactions between the following major research areas: moduli, deformation theory, operads, dynamics.

**Main topics:** Include, but are not limited to: Architecture and dynamics of clone/operadic systems, deformation theory and quantization, Hopf algebra, integrable models, Lie theory, representation theory, mathematical methods of quantum physics, moduli, noncommutative geometry, quantum information.

**Information:** <http://www.agmp.eu/mod13>.

\* 15–19 **General Algebra and its Applications GAIA2013**, La Trobe University, City Campus, Melbourne, Victoria, Australia.

**Description:** Join us at this conference Down Under! This conference is built around the celebration of the retirement and 65th birthday of eminent Australian algebraist Professor Brian Davey. The main theme is universal algebra, its applications and neighbouring disciplines. This includes, but is not limited to, orders and lattices, semigroups, algebraic logic and model theory, algebraic methods in computer science. The conference incorporates workshop elements and is partially sponsored by the Australian Mathematical Sciences Institute and the Australian Mathematical Society.

**Information:** <http://gaia.ltumathstats.com>.

\* 15–19 **Symmetries of Discrete Systems and Processes**, Decin, Czech Republic, North Bohemia.

**Description:** The aim of the conference is to present recent results on symmetries of discrete systems and processes and their application in physics, integrable systems etc. The conference will give the participants a unique opportunity to present their results in this field, see the results of others and discuss the many foreseeable developments. Conference participants are invited to submit original papers to the electronic journal SIGMA (Symmetry, Integrability and Geometry: Methods and Applications). Each paper will pass through the standard peer reviewing procedure of SIGMA.

**Information:** <http://spsmdd.fjfidecin.cz/conference-details>.

\* 22–25 **Moscow International Conference “Israel Gelfand Centenary”**, Russian Academy of Science, Leninski Ave., Moscow, Russia.

**Description:** Russian Academy of Sciences together with the Moscow Mathematical Society and Independent University of Moscow organize an international conference dedicated to the centenary of Israel Gelfand.

**Invited speakers:** J. Bernstein, B. Bollobás, P. Etingof, L. Faddeev, D. Fuchs, A. Goncharov, D. Kazhdan, A. Kirillov, M. Kontsevich, I. Krichever, A. Kushnirenko, Yu. Manin, S. Novikov, A. Okounkov, G. Olshanski, A. Shen, S. Smirnov, A. Vershik, V. Zakharov, A. Zamolodchikov. The conference will also feature talks related to Gelfand's work in biology, applied mathematics, and mathematical education.

**Information:** <http://gelfand100.iitp.ru/>.

\* 22–August 9 **Complex Geometry**, Institute for Mathematical Sciences, National University of Singapore, Singapore.

**Description:** This program concerns the study of the various geometric properties of complex manifolds, and more generally complex analytic varieties. Complex manifolds/varieties arise naturally in and are deeply connected to other branches of mathematics, including hyperbolic geometry, symplectic geometry, number theory and mathematical physics such as string theory. The aim of this program is to bring together groups of complex analysts, complex differential geometers and complex algebraic geometers to: (i) explain to other groups their methods and techniques; (ii) survey recent developments and disseminate their own research findings relating broadly to the area of complex geometry; (iii) chart new directions of research; and (iv) explore possible collaborations, especially among the different groups.

**Information:** <http://www2.ims.nus.edu.sg/Programs/013complex/index.php>.

\* 23–26 **4th Canadian Conference on Nonlinear Solid Mechanics (CanCNSM2013)**, McGill University, Montreal, Quebec, Canada.

**Description:** CanCNSM Conferences are intended to provide an international opportunity for communicating recent developments in various areas of nonlinear solid mechanics and materials. After 3 successful conferences in Victoria (1999), Vancouver (2002) and Toronto (2008), the 4th Canadian Conference on Nonlinear Solid Mechanics will be held in July 23–26, 2013 at McGill University which is best recognized for its research and discoveries in different fields of science. The framework of CanCNSM2013 is truly multidisciplinary and scientists from all over the world are encouraged to contribute to the conference. The technical program will include 6 plenary speakers, regular sessions including contributing papers, and 29 mini-symposium sessions on pre-defined topics of nonlinear solid mechanics as well as areas of linear solid mechanics that are bridging nonlinear aspects.

**Information:** <http://cancnsm2013.mcgill.ca/index.html>.

## August 2013

\* 5–16 **International Cimpa School: “New Trends in Applied Harmonic Analysis Sparse Representations, Compressed Sensing and Multifractal Analysis”**, Mar del Plata, Argentina.

**Description:** The purpose of this school is to focus on two particularly active areas which are representative of new interactions between harmonic analysis and signal and image processing that had striking developments in the last 10 years: “Sparse Representation and Compressed Sensing” and “Multifractal Analysis”. Graduate students are encouraged to participate.

**Deadline:** For Registration is April 7, 2013.

**Confirmed Courses by:** Patrice Abry, Ingrid Daubechies, Hans Fichtinger, Simon Foucart, Kathryn Hare, Stéphane Mallat, Thomas Strohmer, Stéphane Seuret, Vladimir Temlyakov.

**Confirmed Plenary Speakers:** John Benedetto, Pete Casazza, Patrick Flandrin, Eugenio Hernández, Gitta Kutyniok, Michael Lacey, Yuriy Liyubarsky, M. van der Hoop, Sandra Saliari, Rodolfo Torres, Rene Vidal, Yang Wang, Przemyslaw Wojtaszczyk.

**Information:** Check the website for updated information: <http://nuhag.eu/cimpa13>.

\* 12–17 **18th International Summer School on Global Analysis and Applications**, Juraj Pales Institute, Bottova 15, Levoca, Slovakia.

**Description:** The 2013 Summer School is the 18th International Summer School on Global Analysis and Applications, organized every year since 1996 by professor Demeter Krupka and his collaborators (see Global Analysis and Applications and Past Summer Schools). It is held in the beautiful medieval town of Levoca, written in the UNESCO list (<http://whc.unesco.org/en/list/620>). Like in the past, the programme of the school consists of two courses, delivered by recognized specialists in the field. Newly, to support the young participants in their scientific activity, the commented poster session is

organized, contributions are published in abstract books and there is also a time reserved for discussions. The following social events will be organized: sightseeing tours around the town of Levoca and surrounding parts of beautiful Slovak region Spis, conference party.  
**Information:** <http://www.lepageri.eu/ga2013/>.

\* 12–October 11 **Mathematical Horizons for Quantum Physics 2**, Institute for Mathematical Sciences, National University of Singapore, Singapore.

**Description:** Quantum theory is one of the most important intellectual developments of the early twentieth century. Since then there has been much interplay between theoretical physics and mathematics, both pure and applied. In this tradition, it is the objective of this IMS Programme to bring together mathematicians whose work has a bearing on quantum physics, with researchers in mathematical physics and theoretical physics whose work will benefit from the mathematical progress. The Programme will consist of four overlapping three-week sessions, each devoted to a selected topic: Quantum information theory; information-theoretic approaches to thermodynamics; many-particle systems and open quantum systems.

**Information:** <http://www2.ims.nus.edu.sg/Programs/013mhqp/index.php>.

\* 19–23 **Differential Geometry and its Applications**, Masaryk University, Old campus, Brno, Czech Republic.

**Invited Plenary Speakers:** Andrei Agrachev, Trieste, Italy; Serguei Barannikov, Paris, France; Karsten Grove, Notre Dame, USA; Shrawan Kumar, Chapel Hill, USA; Ernst Kuwert, Freiburg, Germany; Colleen Robles, College Station, USA; Jian Song, Rutgers, USA; further speakers in negotiation.

**Parallel Programme Sessions:** Riemannian and pseudo-Riemannian Geometry and Submanifolds (chaired by O. Kowalski); General Geometric Structures (chaired by I. Kolár); Algebra, Geometry, and Mathematical Physics (chaired by S. Merkulov and O. Rossi); Special Structures and Representation Theory (chaired by A. Cap and J. Slovák); Geometric Complexity Theory (chaired by J. M. Landsberg); Finsler Geometry and its Applications (chaired by Z. Shen); Geometry of Vision and Neurogeometry (chaired by D. Alekseevsky); Geometry of Non-linear PDEs (chaired by A. Vinogradov).

**Information:** See the web page for more information and registration: <http://www.math.muni.cz/DGA2013/>.

\* 19–23 **GAP XI Pittsburgh - Geometry and Physics “Seminaire Itinérant”**, University of Pittsburgh, Pittsburgh, Pennsylvania.

**Description:** This is the eleventh edition of the annual GAP conference and summer school: Geometry and Physics: “Séminaire itinérant”, “Higher Geometry and Quantum Field Theory”.

**Mini-course speakers:** Ulrich Bunke (Regensburg), Kevin Costello (Northwestern), Stephan Stolz (Notre Dame).

**Plenary speakers:** To be announced.

**Fee and support:** The attendance fee is \$0. There will be limited support for travel and housing for young U.S. participants. It is recommended to apply early.

**Deadline:** For applications is May 15, 2013.

**Information:** <http://www.geometryandphysics.org/>.

\* 23–25 **14th International Pure Mathematics Conference 2013**, Islamabad, Pakistan.

**Location:** The entire conference will be organized under one roof at the Margalla Hotel, in the modern, peaceful and beautiful federal capital of Pakistan located at the footsteps of the scenic Margalla Hills.

**Description:** The conference is the 14th international conference in the series of Pure Mathematics Conferences that take place in Islamabad every year in August/September. It is a thematic conference on algebra, geometry, and analysis held under the auspices of the Pakistan Mathematical Society (<http://www.pakms.org.pk>) and Algebra Forum (<http://www.algebraforum.org.pk>).

**Housing/grants:** There will be free housing for foreign participants. Some travel grants are available for foreign speakers. Several free

recreational trips will be organized in and around Islamabad introducing the unique local and multi-ethnic culture.

**Registration:** For registration please fill in the on-line registration form at <http://www.pmc.org.pk> and find more information therein. The conference is convened by Professor Dr. Qaiser Mushtaq (Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan, [president@pakms.org.pk](mailto:president@pakms.org.pk)). <http://www.pakms.org.pk>.

### September 2013

- \* 4-6 **Loday Memorial Conference**, Institut de Recherche Mathématique Avancée (IRMA), Strasbourg, France.

**Description:** Jean-Louis Loday, directeur de recherche CNRS in Strasbourg, suddenly passed away on June 6, 2012. This conference, in his memory, aims to give a general picture of the research that he passed down to the mathematical community, notably the study of the interplays between algebraic K-theory and cyclic homology, and the applications of the theory of algebraic operads.

**Speakers:** Pierre Cartier (IHES), Alain Connes (Collège de France), Pierre-Louis Curien (Université Paris 7), Vladimir Dotsenko (Trinity College Dublin), Alice Fialowski (Eötvös Loránd University), Hebert Gangl (Durham University), Grégory Ginot (Université Paris 6), Lars Hesselholt (Nagoya University), Mikhail Kapranov (Yale University), Teimuraz Pirashvili (Leicester University), Maria Ronco (Talca University), Christophe Soulé (IHES), Jean-Yves Thibon (Université Paris Est), Boris Tsygan (Northwestern University), Bruno Vallette (Université de Nice).

**Information:** <http://www-irma.u-strasbg.fr/article1351.html>.

- \* 9-11 **Aachen Conference on Computational Engineering Science (AC.CES)**, AC.CES takes place at RWTH Aachen University (SuperC building), Germany.

**Description:** AC.CES will bring together leading experts in theory, method development, and applications in computational engineering. The main objectives of the conference are to present cutting-edge research and to foster the growth of a stronger CES community, as well as to facilitate collaborations and cross-fertilization of ideas across the different CES disciplines. The conference consists of a series of plenary sessions featuring invited talks by leading experts; these will be accompanied by poster sessions. During the three days topics such as uncertainty quantification, inverse problems in materials science, computational biology, model order reduction, optimization and control, as well as imaging/tomographic inversion will be presented and discussed. The following invited speakers have confirmed their attendance at AC.CES: <http://www.ac-ces.rwth-aachen.de/MainContents/KeynoteLect.php>. If you have specific questions contact the organizers at [aces@ices.rwth-aachen.de](mailto:aces@ices.rwth-aachen.de).

**Information:** <http://www.ac-ces.rwth-aachen.de/>.

- \* 12-14 **The Algerian-Turkish International Days on Mathematics 2013**, Fatih University, Istanbul, Turkey.

**Description:** The aim of this conference is to provide a platform for scientific expertise in mathematics to present their recent works, exchange ideas and to bring together mathematicians to improve collaboration between local and international participants.

**Information:** <http://atim.fatih.edu.tr/>.

- \* 21-23 **The First International Conference on New Horizons in Basic and Applied Science Session "Aspects of Mathematics and its Applications"**, Hurghada, Egypt.

**Description:** The first international conference "New horizons in basic and applied science" (ICNHBAS) provides a unique opportunity for scientists, scholars, engineers and students from the universities, technologists, entrepreneurs and policy makers all around the world to present current researches being carried out in basic and applied science area. The conference promotes for the delegates

to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration. The conference will also have numerous invited talks from distinguished scientists from all over the world, to interact with the experts in their fields and to foster interdisciplinary collaborations required to meet the challenges of modern science, technology and society. All the papers that are submitted to the conference will undergo a review process for either oral or poster presentation.

**Information:** <http://www.nhbas2013.com>.

### October 2013

- \* 24 **3rd IMA Mathematics in Defence**, QinetiQ, Malvern, United Kingdom.

**Description:** This conference brings together a wide variety of mathematical methods with defence and security applications. The conference programme will include keynote speakers, contributed presentations and poster sessions as well as refreshment breaks for informal discussions. It is intended for mathematicians, scientists and engineers from industry and academia, as well as government and military personnel who have an interest in how mathematics can be applied to defence problems.

**Information:** [http://www.ima.org.uk/conferences/conferences\\_calendar/3rd\\_mathematics\\_in\\_defence.cfm](http://www.ima.org.uk/conferences/conferences_calendar/3rd_mathematics_in_defence.cfm).

- \* 28-31 **Groups, Group Rings, and Related Topics GRRRT 2013**, United Arab Emirates University, Al Ain, United Arab Emirates.

**Description:** The conference will include talks given by well-known invited algebraists and a poster session. In parallel, a workshop on GAP (Groups, Algorithms, and Programming) System for Computational Discrete Algebra will be given by the GAP Development Group of St. Andrews University (UK). Conference proceedings will be electronically edited by the scientific committee. In addition, selected peer-reviewed papers will be published in a special edition of the *International Journal of Group Theory*. The social activities will include a short trip to Jebel Hafeet, a conference dinner, and a trip to Dubai ending with a dinner on a boat cruising along Dubai Creek.

**Registration and abstract submission:** Must be before September 15th, 2013. A discount will be given for early registration (before June 15th, 2013).

**Information:** [http://www.cos.uaeu.ac.ae/departments/mathematical/conferences/GRRRT\\_2013/](http://www.cos.uaeu.ac.ae/departments/mathematical/conferences/GRRRT_2013/).

### November 2013

- \* 11-14 **SIAM Conference on Geometric and Physical Modeling (GD/SPM13)**, The Curtis, A DoubleTree by Hilton Hotel, Denver, Colorado.

**Description:** This conference is sponsored by the SIAM Activity Group on Geometric Design, incorporating the 2013 SIAM Conference on Geometric Design and the 2013 Symposium on Solid and Physical Modeling.

**Information:** <http://www.siam.org/meetings/gdspm13/>.

- \* 11-15 **Mal'tsev Meeting 13**, Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia.

**Description:** Mal'tsev Meeting is an annual conference on algebra, mathematical logic, and their applications. In 2013, the event is dedicated to an anniversary of Professor Larisa L. Maksimova.

**Topics:** Include nonclassical logics, computability, theories of groups, rings, and other classical algebras, model theory and universal algebra, applications in computer science, and other related areas of mathematics.

**Information:** <http://www.math.nsc.ru/conference/malmeet/13/index.html>.

**December 2013**

- \* 18–20 **6th Indian International Conference on Artificial Intelligence**, Tumkur (near Bangalore), India.

**Description:** The 2013 International Conference on Advances in Data Mining and Security Informatics (DMSI-13) and the 2013 International Conference on Image, Video and Signal Processing (IVSP-13) will also be held at the same time and place. We invite draft paper submissions. IICAI is a series of high quality technical events in Artificial Intelligence (AI) and is also one of the major AI events in the world. The conference will be held every two years to make it an ideal platform for people to share views and experiences in AI and related areas.

**Information:** For more details visit: <http://www.iiconference.org>.

**March 2014**

- \* 10–26 **School and Workshop on Classification and Regression Trees**, Institute for Mathematical Sciences, National University of Singapore, Singapore.

**Description:** Classification and regression trees are an integral part of the toolbox of data mining, machine learning, and statistics. The year 2013 marks the fiftieth anniversary of the publication of the first journal article on the subject. New techniques have added capabilities that far surpass the early methods. Modern classification trees can partition the data with linear splits on subsets of variables and fit nearest-neighbor, kernel-density, and other models in the partitions. Regression trees can fit almost every kind of traditional statistical model, including least-squares, quantile, logistic, Poisson and proportional hazards models, as well as models for censored, longitudinal and multi-response data. The purpose of the workshop is to bring together current experts in the field to discuss recent developments and generate ideas for future research. The purpose of the school is to introduce the subject to other researchers and practitioners who are interested to learn the techniques.

**Information:** <http://www2.ims.nus.edu.sg/Programs/014swclass/index.php>.

**The following new announcements will not be repeated until the criteria in the next to the last paragraph at the bottom of the first page of this section are met.**

**May 2014**

- \* 26–30 **Constructive Functions 2014**, Vanderbilt University, Nashville, Tennessee.

**Description:** The focus of this conference is on all aspects of constructive function theory, from asymptotics to zero distribution, and on minimum energy problems on manifolds. The conference will honor the 70th birthday of Ed Saff.

**Information:** <http://www.math.vanderbilt.edu/~constructive2014/>.

**June 2014**

- \* 2–5 **VI Workshop on Dynamical Systems: On the occasion of Marco Antonio Teixeira's 70th birthday (MAT70)**, Águas de Lindóia, Sao Paulo, Brazil.

**Description:** In 2014 we wish to celebrate Marco Antonio Teixeira's 70th birthday and his significant mathematical contribution. With this in mind, we wish to honor him with a Scientific Conference to be held in a small tourist town in the interior of the state of São Paulo, Águas de Lindóia, from June 2–5, 2014.

**Main topics:** Non-Smooth Dynamical Systems and Conservative/Reversible Dynamical Systems.

**Information:** <http://www.mat70.com/>.

- \* 23–28 **6th International Conference on Advanced Computational Methods in Engineering**, NH Gent Belfort, Gent, Belgium.

**Description:** ACOMEN 2014 is the 6th event in a successful series of interdisciplinary international conferences, which aims to bring together a diverse community of mathematicians, engineers, and physicists involved in applied sciences, mathematics and developing advanced computational methods. The main topics of ACOMEN include but are not limited to: applied mathematics, numerical analysis and computational mathematics, financial mathematics, optimization and optimal control, inverse problems, computational finance, computational electromagnetism, fluid dynamics, heat transfer and porous media flow, computational chemistry, computational biology and medicine, computational geosciences high-scale and parallel computing, software for scientific computations.

**Information:** <http://www.acomen.ugent.be>.

**November 2014**

- \* 11–January 25 **Inverse Moment Problems: The Crossroads of Analysis, Algebra, Discrete Geometry and Combinatorics**, Institute for Mathematical Sciences, National University of Singapore, Singapore.

**Description:** Applications of moments of measures in polynomial optimization led to a number of breakthroughs in optimization and real algebraic geometry, as well as to better understanding of ways to encode measures. Other similar threads are recently seen in the theory of integration on polytopes and counting of integer points in polytopes, as well as in quantum computing. The aim of the program is to further investigate relations between these topics and inverse moment problems, i.e., questions of reconstructing measures from a set of its moments, which are traditionally attacked by purely analytic tools. Activities will include two 4–5 day research conferences, one quantum computing workshop, and one graduate student winter school/workshops.

**Information:** <http://www2.ims.nus.edu.sg/Programs/014inverse/index.php>.

**September 2015**

- \* 1–August 31 **Call for Research Programmes 2015–2016**, Centre de Recerca Matemàtica, Bellaterra, Barcelona, Spain.

**Description:** The CRM invites proposals for Research Programmes during the academic year 2015–2016 in any branch of mathematics and its applications. CRM Research Programmes consist of periods ranging between two to five months of intensive research in a given area of mathematics and its applications. Researchers from different institutions are brought together to work on open problems and to analyze the state and perspectives of their area.

**Deadlines for submission of proposals:** November 29, 2013, for preliminary proposals and October 25, 2013, for final proposals.

**Information:** <http://www.crm.cat/en/Pages/DetailCrida.aspx?ItemID=7>.